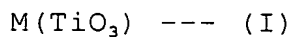


# ABSTRACT

Ans 11) A perovskite titanium-containing composite oxide particle has a composition represented by general formula (I), wherein the specific surface area is about 10 to about 200 m<sup>2</sup>/g, the specific surface area diameter D<sub>1</sub> of the primary particles as defined by formula (II) is about 10 to about 100 nm, and the ratio D<sub>2</sub>/D<sub>1</sub> of the average particle size D<sub>2</sub> of the secondary particles to D<sub>1</sub> is about 1 to about 10:



(wherein M is at least one of Ca, Sr, Ba, Pb, or Mg)

$$D_1 = 6 / \rho S \text{ --- (II)}$$

(wherein  $\rho$  is the density of the particles, and S is the specific surface area of the particles.)

The perovskite titanium-containing composite oxide particle of the present invention shows a small particle size and excellent dispersion properties, so that the particle is suitable for the application to functional materials such as a dielectric material and a piezoelectric material, a memory, and a photocatalyst.